

[illegible]

TEST AND PROPERTIES INDEX		METALLURGICAL LITERATURE CLASSIFICATION	
TEST AND PROPERTIES INDEX	TEST AND PROPERTIES INDEX	TEST AND PROPERTIES INDEX	TEST AND PROPERTIES INDEX
<p>3 Temperature measurement in copper foundries. M. H. Zolotarev, <i>Leningradskiy Zavod, 6</i>, (1941-2/1937).—On a set of protective sheaths for thermocouples used for measuring the temp. of molten bronze, the most satisfactory were those made by boring a hole in low-C Fe rods.</p> <p>R. C. P. A.</p>			
<p>ASME-ISA METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>TEST AND PROPERTIES INDEX</p>			
<p>TEST AND PROPERTIES INDEX</p>			

ARBEN'YEV, A., inzh.; ZOBIN, A., inzh.

Effective method of winter concreting. Na stroi. Ros. 3 no.10:
23-24 0 '62. (MIRA 16:6)

(Concrete construction—Cold weather conditions)

ZOBIN, B.A., inzh.

Small launches with underwater wings. Sudostroenie 25 no.10:6-7
0 '59. (Launches) (Planing hulls) (MIRA 13:2)

ZOBIN, A.O.

Letter to the editors. Lit. profay. no. 148 Ja '61.

(Aluminum founding)

(MIRA 14:1)

B/128/61/000/001/009/009
A054/A133

AUTHOR: Zobnin, A. O.

TITLE: Letter to the editor

PERIODICAL: Liteynoye proizvodstvo, no. 1, 1961, 48

TEXT: In V. I. Ivanov's article: Application of exothermal mixtures with ferro-aluminum, (Liteynoye proizvodstvo, no. 4, 1960) some methods were described how to obtain aluminum shot. According to A. O. Zobnin, these methods are labor-consuming, inefficient, and expensive. Another method, applied successfully is recommended, requiring a container two thirds of which are filled with water. Air is supplied from the air mains to the nozzle, the air-flow being regulated by a tap. Molten aluminum is poured into the container from the ladle through a spout, made of 30 x 30 mm angle steel. While flowing through the spout the aluminum passes below the compressed air-jet and crumbles. By controlling air and aluminum feed, it is possible to obtain shot of various size. When water-cooled the shot sinks down to the container bottom. Even in this simple form the equipment is efficient. The output could be raised by mounting stationary ladle with a hole in the bot-

Card 1/2

Letter to the editor

S/128/61/000/001/009/009
A054/A133

tom and by applying electric heating to maintain the required temperature.
There is 1 figure.

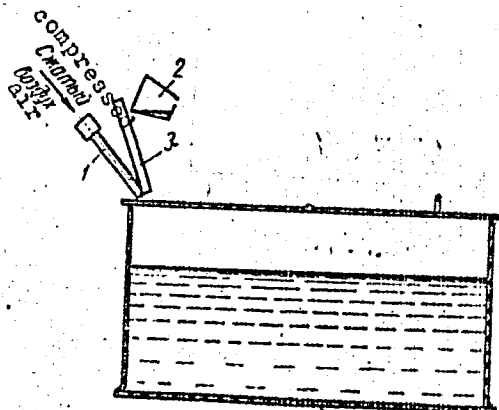


Figure:

- 1 - nozzle (pipe end);
- 2 - tap;
- 3 - spout;

Card 2/2

OBOZOV, G.S.; ZOBNIN, B.

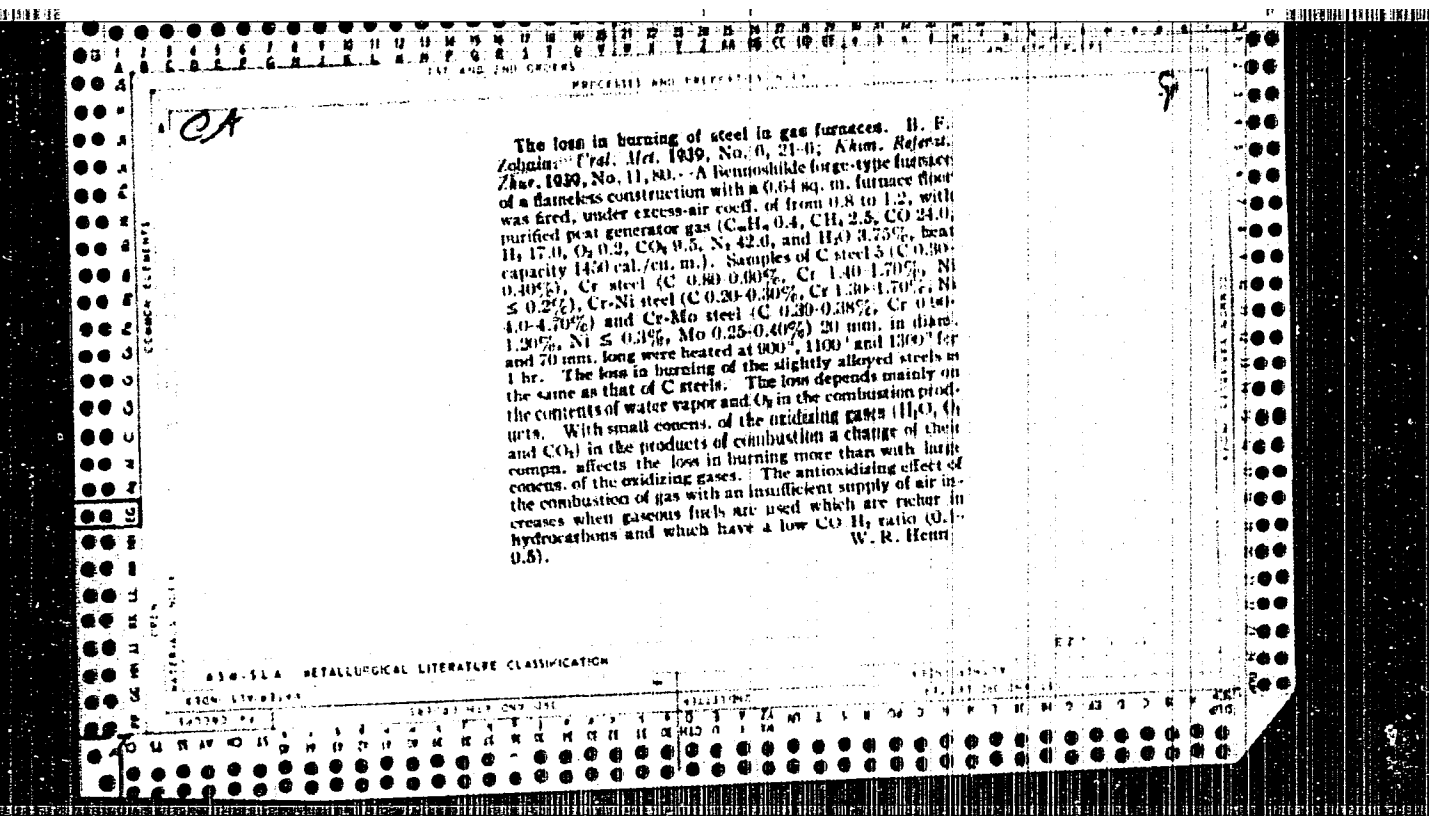
Improved lap filling of the roll and its covering with slubbing
on single-process scutching machines with automatic lap doffing.
Tekst. prom. 25 no.10:30-32 O '65. (MIRA 18:10)

1. Nachal'nik sortirovochno-trepal'nogo tsekha Khersonskogo
khlopchatobumazhnogo kombinata (for Obonov). 2. Nachal'nik
sortirovochno-trepal'nogo tsekha kombinata "Krasnyy perekop"
(for Zobnin).

KUZELEV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol'yevich; SMELYANOV, Nikolay Nikolayevich; ZORIN, B.A., kandidat tekhnicheskikh nauk, redtsenzent; BORISILY, A.A., dotsent, otvetstvennyy redaktor; VOIPTYANSKIY, L.M., inzhener, redaktor; GIMELMAN, M.R., inzhener, redaktor; DEZAKOV, A.P., inzhener, redaktor; KAKHAROV, B.P., inzhener, redaktor; TVAREV, K.M., inzhener, redaktor; KUKOVINA, A.S., inzhener, redaktor; NESTEROV, B.A., inzhener, redaktor; RAZUMOVA, M.S., inzhener, redaktor; SIDORNIKO, R.A., inzhener, redaktor; ROZHENBERG, I.A., kandidat tekhnicheskikh nauk, redaktor; DUGINA, N.A., tekhnicheskii redaktor

[Foundry worker's handbook] Spravochnik rabochego-litel'shchika. Izd. 2-oe, dop. i perer. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 634 p. (MIRA 10;4)
(Founding)

PROCESSING AND PROPERTIES		B-I-10	
Control of the moisture content of [wooden] mounds during dry dist. N. T. M. (David. Lab., 1900; 7, 01) - A special thermocouple, termed a "thermo-gauge," is described. The drying of wooden articles is controlled by regulation of the temp. of the wind at a depth of 10 cm.; the temp. at first rises rapidly, and then remains at 100° until dehydration is practically complete. R. T.			
ASG-SL-4 DETAILING LITERATURE CLASSIFICATION		E-17-10-10	
RECORDS SECTION		RECORDS SECTION	
SEARCHED SERIALIZED INDEXED FILED		SEARCHED SERIALIZED INDEXED FILED	
JAN 10 1961		JAN 10 1961	



Can

PROCESSING AND PROPERTIES INDEX
FIRST AND SECOND EDITIONS

Control of moisture content in foundry cores during drying. H. F. Zepina; Zavodskaya Lab. 7, 362-4(1980). The dehydration process is measured by a thermocouple connected to a recording galvanometer. Construction and operation details are given. (Moscow, USSR)

S

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

BASIC SYMBOLS

GROUPS OF SUBJECTS

DESCRIPTORS

CLASSIFICATION

ZOENIN, B.F.; TEBEN'KOV, B.P., kand. tekhn. nauk, retsenzent;
LIFSHITS, A.Ye., kand. tekhn. nauk, red.

[Heating furnaces; theory and design] Nagrevatel'nye
pechi; teoriia i raschet. Moskva, Mashinostroenie, 1964.
310 p. (MIRA 18:2)

TROIB, S.G., doktor tekhn. nauk, prof.; ZOENIN, B.F., nauchn. red.
VAKHTINA, Ye.F., tekhn. red.

[Establishing norms for fuel consumption in furnaces] Normirovanie raskhoda topliva v pechakh; uchebnoe posobie.
Sverdlovsk, Ural'skii politekhn. in-t, 1963. 72 p.
(MIRA 17:4)

ZOBIN, B.F.

Over-all calculations of thermal processes in a holding
furnace. Izv. vys. ucheb. zav.; chern. met. no.2:169-174
'60. (MIRA 15:5)

1. Ural'skiy politekhnicheskiy institut.
(Furnaces, Heating--Combustion)
(Heat--Transmission)

ZOBNIN, B. F.

LEBEDEV, Nikolay Sergeyevich; ZOBNIN, B. F., kandidat tekhnicheskikh nauk,
retsensent; KOBYAKOV, P. V., kandidat tekhnicheskikh nauk,
nauchnyy redaktor; DUGINA, N. A., tekhnicheskiiy redaktor

[Gas heat-treatment furnaces; construction and operation] Gazovye
nagrevatel'nye pechi; konstruktsii i ekspluatatsiya. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956.
185 p.

(Furnaces, Heat--Treating)

(MLHA 10:4)

SOKOLOV, V.N., kandidat tekhnicheskikh nauk; KUROVEDOV, V.A., kandidat tekhnicheskikh nauk; SOROKIN, A.I., kandidat tekhnicheskikh nauk; LEBEDEV, A.V., inzhener; KOENIN, B.F., inzhener; VOYEVODKIN, I.B., inzhener.

Investigation of the heating of large ingots. [Trudy] TSNITMASH
66:83-115 '54. (MLRA 7:9)

1. TSNITMASH (for Kurovedov). 2. Uralsmashzavod (for Voyevodkin).
(Steel ingots) (Metals--Heat treatment)

KUZELEV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol'yevich;
 SMELYAKOV, Nikolay Nikolayevich; DUBITSKIY, G.M., doktor
 tekhn. nauk, retsenzent; ZOENIN, B.F., kand. tekhn. nauk,
 retsenzent; KOROTKOV, V.G., kand. tekhn. nauk, retsenzent;
 LEVCHENKO, P.V., kand. tekhn. nauk, retsenzent; MAKURIN, P.I.,
 kand. tekhn. nauk, retsenzent; PASTUKHOV, A.I., kand. tekhn.
 nauk, retsenzent; PORUCHIKOV, Yu.P., kand. tekhn. nauk, re-
 tsenzent; ROZENBERG, I.A., kand. tekhn. nauk, retsenzent;
 SERGEICHEV, N.F., kand. tekhn. nauk, retsenzent; FILIPPOV,
 A.S., kand. tekhn. nauk, retsenzent; YAROSHENKO, Yu.G., kand.
 tekhn. nauk, retsenzent; BAZAROVA, N.V., inzh., retsenzent;
 BLANK, E.M., inzh., retsenzent; VOLFYANSKIY, L.M., inzh.,
 retsenzent; ZAKHAROV, B.P., inzh., retsenzent; MISHALOV, S.V.,
 inzh., retsenzent; RAZUMOVA, M.S., inzh., retsenzent;
 SHABALIN, L.A., inzh., retsenzent; SHKUNDI, R.M., inzh., re-
 tsenzent; DUGINA, N.A., tekhn. red.

[Handbook of foundry practice] Spravochnik rabochego-
 liteishchika. 1zd.3. Moskva, Mashgiz, 1961. 584 p.

(MIRA 15:4)

(Founding--Handbooks, manuals, etc.)

ZOBNIN, M.I.

Construction of the open spillway. Energ.stroi. no. 24:93-98
'61. (MIRA 15:4)

1. Nachal'nik Narvskogo uchastka tresta "Gidromekhanizatsiya",
(Narva region--Spillway)

ZOBNIH, N., professor, doktor tekhnicheskikh nauk

Reserve strength in rolling stock wheel pairs. Zhel.dor.transp.
no.12:60-63 D'47. (Wheels) (MIRA 8:12)

ZOBNIN, N.P.
ZOBNIN, N.P., doktor tekhn. nauk, prof.

Durability of axle hardening by rolling. Vest. mash. 38 no.1:30-
31 Ja '58. (MIRA 11:1)
(Car axles)

ZOBININ, Nikolay Pavlovich, prof., doktor tekhn. nauk, red.; SHISHKIN, Aleksey Alekseyevich, dots. kand. tekhn. nauk.; YUDIN, Danil L'vovich, dots. kand. tekhn. nauk.; DANILEVSKIY, V.V., dots., kand. tekhn. nauk, red.; BRAYLOVSKIY, N.G., inzh., red.; BOBNOVA, Ye. N., tekhn. red.

[Metal cutting] Obrabotka metallov rezaniem. Pod red. N.P. Zobnina. Moskva, Gos. transp. zhel-dor. ind-vo, 1958. 256 p. (MIRA 11:10)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta im. I.V. Stalina (for Zobnin, Yudin). 2. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta (for Shishkin).
(Metal cutting)

ZOBNIN, N.P.

Stability of surface hardening of axles by burnishing. Trudy
Sem.po kach.poverkh. no.5:64-70 '61.
(Surface hardening) (MIRA 15:10)

9/514/61/000/005/003/014
1007/1207


AUTHOR: Zobnin, N.P.

TITLE: Durability of surface hardness of axles machined by rolling

SOURCE: Akademiya Nauk SSSR. Komissiya po tekhnologii mashinostroyeniya. Seminar po kachestvu poverkhnosti. Trudy, no.5, 1961, Kachestvo poverkhnosti detaley mashin; metody i pribory, uprochneniye metallov, tekhnologiya mashinostroyeniya, 64-70

TEXT: The service-life of railroad - car axles, and hence the safety of railroad transport, depends to a great extent on their surface hardness and mechanical strength. At present, a special technology for machining of railroad car axles by rolling is gaining increasing acceptance. In order to study the durability of surface hardness of axles so machined, the Laboratory for Metal Cutting, of the Moskovskiy Institut Inzhenerov zheleznodorozhnogo transporta (Moscow Institute for Engineers of Railroad Transport) carried out special experiments. 5 steel specimens were subjected to comparative cycling tests on a four-spindle test machine, after their machining by metal cutting and rolling. The tests were carried out in two stages 1). preliminary

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Durability of surface...

3/5/61/000/005/003/014
1001/1207

stage-testing at 200 million cycles; 2). final stage small-disk testing at 500 million cycles. The test results, presented in tables, showed that the endurance limit of car axles increased by a factor of 1.93 which, under conditions of field operations, is of particular importance. Machining by rolling increases at the same time wear resistance, due to the work-hardening effect. The test results also revealed a sufficient durability of surface hardness of railroad-car axles machined by rolling. There are 2 figures and 3 tables. ✓

Card 2/2

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALIN'YEV, A.U.; GRIGOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, H.N.; ZAKHAROV, P.M.; ZOBNIN, H.P.; IVANOV, I.I.; IL'IN, I.P.; IMETIK, P.I.; KUDRYASHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PRUTSOVSKIY, L.M.; POGODIN, A.M.; RUDOV, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITEKOVSKIY, I.P.; SITNIK, M.D.; TETREEV, B.K.; TSETYRAIN, I.Ye.; TSUKANOV, P.P.; SHADIKYAN, V.S.; ADELUNG, N.N., retsenzent; AFANAS'YEV, Ye.V., retsenzent; VLASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VORONOV, N.M., retsenzent; GRITCHENKO, V.A., retsenzent; ZHEREBIN, H.N., retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent; KOCHUROV, P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO, A.P., retsenzent; LOBANOV, V.V., retsenzent; MOROZOV, A.S., retsenzent; ORLOV, S.P., retsenzent; PAVLUSHKOV, E.D., retsenzent; POPOV, A.N., retsenzent; PROKOP'YEV, P.F., retsenzent; RAKOV, V.A., retsenzent; SINEGUBOV, H.I., retsenzent; TEREHIN, D.F., retsenzent; TIKHOMIROV, I.G., retsenzent; URBAN, I.V., retsenzent; FIALKOVSKIY, I.A., retsenzent; CHEPYZHEV, B.F., retsenzent; SHEBYAKIN, O.S., retsenzent; SHCHERBAKOV, P.D., retsenzent; GARNYK, V.A., redaktor; LOMAGIN, H.A., redaktor; MORDVINKIN, H.A., redaktor; NAUMOV, A.N., redaktor; POBEDIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TYVERSKOY, K.N., redaktor; CHEREVATYI, N.S., redaktor; ARSHINOV, I.M., redaktor; BABELYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VRSHEVSKIY, S.V., redaktor; GAMBURG, Ye.Yu., redaktor; DHRIBAS, A.T., redaktor; DOMEROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; KIKHEV, A.P., redaktor

(Continued on next card)

ALFEROV, A.A. ---- (continued) Card 2.

MOSKVIN, G.H., redaktor; RUBINSHTEYN, S.A., redaktor; TSYPIN, G.S.,
redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSEEV, V.I., redaktor;
CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A.,
redaktor

[Railroad handbook] Spravochnaia knizhka zheleznodorozhnika, Izd.
3-e, ispr. i dop. Pod obshchei red. V.A.Garnyka. Moskva, Gos.
transp.zhel-dor. izd-vo, 1956. 1103 p. (MLRA 9:10)

1. Nauchno-tekhnicheskoye obshchestvo zheleznodorozhnogo transporta.
(Railroads)

ZOBNIN, Nikolay Pavlovich, prof., doktor tekhn.nauk; YUDIN, Daniil
L'vovich, dots., kand.tekhn.nauk; SHISHKIN, Aleksey Alekseyevich,
dots.,kand.tekhn.nauk; ROGOV, Aleksandr Yakovlevich, dots., kand.tekhn.
nauk; REKUDANOV, P.N., kand.tekhn.nauk, retsenzent; SAKANTSEV, Yu.S., inzh.,
red.; BOBROVA, Ye.N., tekhn. red.

[Metal cutting] Obrabotka metallov rezaniem. Izd.2. Moskva, Trans-
zheldorizdat, 1962. 299 p. (MIRA 15:6)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (for
Zobnin, Yudin, Rogov). 2. Rostovskiy institut inzhenerov zheleznod-
orozhnogo transporta (for Shishkin).
(Metal cutting)

ZOBIN, N. P., Prof.

Axles

Effect of burnishing the fitting surfaces of axles with rollers on their endurance and resistance to pressure. Vest. mash. 32, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

ZOBNIN, Nikolay Pavlovich, professor; VOSKRESENSKIY, N.N., inzhener,
redaktor; BOBROVA, Ye.N., tekhnicheskiiy redaktor

[Machining of parts for wheel pairs] Mekhanicheskaya obrabotka detalей
kolesnykh par. Moskva, Gos. transp.zhel-dor. izd-vo, 1956. 238 p.
(Car wheels)
(MIRA 10:1)

203NIN, N.P.

ZORIN, N.P., doktor tekhn. nauk, prof.; ROGOV, A.Ya., kand. tekhn. nauk, dots.;
KHAPKO, V.U., assistant.

Strengthening wheel pair axles by rolling. Trudy MII no.93:3-72
'57.

(Car axles) (Rolling (Metalwork)) (MIRA 11r4)

ZOBNIN, N.P.

Effect of cold rolling on the endurance of pressed joints.
Trudy Sem.po kach.poverkh.2:58-81 '53. (MLRA 7:2)
(Car wheels) (Axles) (Metals--Cold working)

ZOBNIN, N.P.

BRAVICH, V.A., kandidat tekhnicheskikh nauk, dotsent; BRODOVICH, N.V., kandidat tekhnicheskikh nauk; VLASOV, V.I., kandidat tekhnicheskikh nauk, retsenzent, redaktor; YEGOROV, A.N., professor, retsenzent, redaktor; ZOBNIN, N.P., doktor tekhnicheskikh nauk, professor; IVANNIKOV, D.G., kandidat tekhnicheskikh nauk, dotsent; KUDKIN, V.G., doktor tekhnicheskikh nauk, professor; KOTOV, O.K., kandidat tekhnicheskikh nauk; MARIYEMBAKH, L.M., doktor tekhnicheskikh nauk, professor; MASHONIN, P.A., inzhener, RUBINSHTAYN, S.A., inzhener, RUDOV, M.L., inzhener, YUDIN, D.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; PETROV, N.I., inzhener, retsenzent; SIDOROV, S.I., inzhener, retsenzent; SOKOLOV, I.G., kandidat tekhnicheskikh nauk, retsenzent; BERESTOVA, Ye.I., inzhener, retsenzent; DOBOKHIN, P.M., kandidat tekhnicheskikh nauk, retsenzent; RUSTEY, S.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; LARIN, M.N., laureat Stalinskoy premii, professor, doktor tekhnicheskikh nauk, retsenzent; SOKOLOV, A.V., inzhener, retsenzent; GRUDOV, P.P., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk, retsenzent; DONNER, L.L., inzhener, retsenzent; ZOBNIN, professor, doktor tekhnicheskikh nauk, retsenzent; BELAVENTSEV, N.V., inzhener, retsenzent; SYCHEV, B.P., dotsent, retsenzent; SHKOL'NIK, L.M., kandidat tekhnicheskikh nauk, retsenzent; LOZANOV, D.V., kandidat tekhnicheskikh nauk, dotsent, retsenzent, redaktor; MASHONIN, P.A., inzhener, retsenzent, redaktor; OBUKHOV, A.V., inzhener, redaktor; BELETSKIY, D.G., kandidat tekhnicheskikh nauk, dotsent, redaktor; ODING, I.A., redaktor; LEVITSKIY, kandidat tekhnicheskikh nauk, dotsent, redaktor; YUDSON, D.M., tekhnicheskiiy redaktor

(Continued on next card)

BRAVICHEV, V.A, kandidat tekhnicheskikh nauk, dotsent; & others (Card 2)

[Railroad man's technical manual] Tekhnicheskii spravochnik zhelezнодорожника, Red.kollegiia; V.I. Vlasov, A.N. Mgornov, N.P. Zobnin, E.F. Rudoi (Glav.red.) A.V. Sokolov. Moskva, Gos.transportnoe zhel-dor.izd-vo. Vol. 12 [Processing metals at railroad transport enterprises] Obrabotka metallov na predpriyatiyakh zhelezнодорожного транспорта. Otvet.red. N.P.Zobnin. 1954. 671 p.(MLRA 8:11)

1. Chlen-korrespondent, AN SSSR (for Odint.)
(Mechanical engineering)

ZOBNIN, N.P., doktor tekhn.nauk, prof.; KHAPKO, V.U., kand. tekhn.nauk, dotsent

Increasing the efficiency of the cutting of gear wheels for locomotive transmissions. Trudy MFT no.200:5-21 1974.

Mechanical hardening of gear wheels with the relieved surface of a worm cutter on the gear cutting machine. Ibid. 247-53

(MIRA 18:8)

ZOBNIN, N.P.
ZOBNIN, N.P., professor, doktor tekhnicheskikh nauk

Effect of knurling axles on the strength of press fits. Tekh.zhel.
dor.7 no.10:25-26 0 '48. (MLRA 8:11)

(Axles)

ZOBNIN, H.P., professor, doktor tekhnicheskikh nauk

Press working of hub seats and hubs. Tekh.zhel.dor.6 no.12:17-18
D'47. (MLHA 8:12)

(Car axles)

21965

ZOBININ, N. P.

Kachestvo obrabotannykh poverkhnostey i prochnost' pressovykh
soyedimeniy osey.

Trudy Mosk. elektromekhan. in - ta inzhenerov zh.--d,
Transporta im. Dzerzhinskogo, Vyp. 58, 1949, s. 127-207.
Bibliogr: 12, NAZV

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

25(7)

PHASE I BOOK EXPLOITATION SOV/1215

Zobnin, Nikolay Pavlovich; Shishkin, Aleksey Alekseyevich; and Yudin, Danil L'vovich

Oborabotka metallov rezaniyem (Metal Cutting) Moscow, Transzheldor-izdat, 1958. 256 p. 6,000 copies printed.

Ed. (Title page): Zobnin, N.P., Doctor of Technical Sciences, Professor; Eds. (Inside book): Danilevskiy, V.V., Candidate of Technical Sciences, Docent, and Braylovskiy, N.G., Engineer; Tech. Ed.: Bobrova, Ye. N.

PURPOSE: This book is approved by the Ministry of Higher Education, USSR, as a handbook for railroad transport vuzes. It may also be useful to engineers and technicians in plants and in railroad repair shops for rolling stock, wheels and track.

COVERAGE: The book presents the theoretical fundamentals of metal cutting. The construction and operation of metal-cutting machinery

Card 1/10

Metal Cutting

SOV/1215

and instruments are described. The fundamentals of methods used in development of techniques of mechanical metal processing are discussed. The name of A.V. Gadolin is mentioned as having contributed to this field. There are 80 references, of which 74 are Soviet, 5 English and 1 German.

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Metal Cutting

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	GO/ksv
	2-26-59

ZOBININ, N.P., doktor tekhn. nauk, prof.; ROGOV, A.Ya., kand. tekhn.
~~nauch. dotsent~~

Investigation and operational testing of axles hardened by
cold working. Trudy MIIT no.159:4-29 '62. (MIRA 16:6)

(Car axles—Testing)
(Metals—Cold working)

ZOBININ N.P., doktor tekhn. nauk, prof., KHAPKO, V.U., kand. tekhn.
nauk, dotsent

Hardening treatment of axles after prolonged operation. Trudy
MIIT no.159:30-52 '62. (MIRA 16:6)

(Car axles—Maintenance and repair)
(Metals—Cold working)

ZABLONSKIY, K.I., prof.; ZOBININ, N.P., doktor tekhn. nauk, prof.;
YUDIN, D.L., kand. tekhn. nauk, dotsent; FILIPOVICH, S.I.,
inzh.; PORKHACHEV, M.A., inzh.

Stands for hardening treatment and strength testing of the
traction transmission gearing of locomotives. Trudy MIIT
no.159:75-88 '62. (MIRA 16:6)

(Locomotives—Transmission devices)

~~ZORNTIN~~ N.P., doktor tekhn. nauk, prof.; RGGOV, A.Ya., kand. tekhn.
nauk, dotsent; KHAPKO, V.U., kand. tekhn. nauk, dotsent;
YUDIN, D.L., kand. tekhn. nauk, dotsent

Effect of the cold working depth on the service life of axle
press joints. Trudy MIIT no.159:89-98 '62. (MIRA 16:6)

(Car axles)

(Metals--Cold working)

ZOBIN, V.

What problems are given at competitive examinations? Nauka i zhizn' 29
no.6:111-112 Je '62. (MIRA 15:10)
(Mathematics—Problems, exercises, etc.)

ZOBNIN, V.

What problems are given at competitive examinations? Nauka i zhizn'
29. no.5:111 Ky '62. (MIRA 15:11)
(Mathematics--Problems, exercises, etc.)

ZOBMIN, V.; KAMERILOV, V., inzh.-konstruktor

The "Tula-200K" motor scooter. Za rul. 20 no.4:19 Ap '62.

(MIRA 15:5)

(Motor scooter)

LOTOTSKIY, A.V., inzh.; ZOBNIN, V.A., inzh.; KAMERILOV, V.K., inzh.;
SHMELEV, O.F., inzh.; KASPEROVICH, N.S., red. izd-va;
EL'KIND, V.D., tekhn. red.

[Catalog of spare parts for "Tula" T-200 and T-200 M motor
scooters] Katalog zapasnykh chastei motorollerov "Tula" T-200
i T-200M. Moskva, Mashgiz, 1962. 65 p. (MIRA 16:5)

1. Russia (1917- R.S.F.S.R.) Tul'skiy ekonomicheskii admini-
strativnyy rayon. Sovet narodnogo khozyaystva.
(Motor scooters--Catalogs)

LOTOTSKIY, A.V., inzh.; ZOBININ, V.A., inzh.; KAMERLOV, V.K., inzh.;
SHMELEV, O.F., inzh.; KASPEROVICH, N.S., red. i sd-vn; EL'KHID,
V.D., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Catalog of spare parts of the "Tula" TG-200 motor-scooter
truck] Katalog zapasnykh chastei gruzovogo motorollera "Tula"
TG-200. Moskva, Mashgiz, 1962. 75 p. (MIRA 15:11)

1. Russia (1917- R.S.F.S.R.) Tul'skiy ekonomicheskii admini-
strativnyy rayon. Sovet narodnogo khozyaystva.
(Motor scooters—Catalogs)

LOFOESKIY, Aleksey Vladimirovich, inzh.; ZOBNIN, Vladimir Andreyevich,
inzh.; KAMSELOV, Vladimir Konstantinovich, inzh.; SEMENOV,
Oleg Filippovich, inzh.; GINTSBERG, M.G., red.; MAKHIMSON, V.A.,
red.izd-vs; KL'KIND, V.D., tekhn.red.

[Freight motor scooters] Gruzovye motorollery. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 163 p.
(Motor scooters) (MIRA 14:4)

TURINSEV, Yu.I., inzh.; ZORNIN, V.I., inzh.; BAKHAREVA, G.P., inzh.

Study of the stability and determination of safe angles of levelled-off sides of the Blyava open-pit mine. Izv.vys.ucheb.zav.; gor.zhur. 5 no.2:97-101 '62. (MIRA 15:4)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti.

(Blyava region--Strip mining) (Blasting)

TURINTSEV, Yu.I.; ZOBNIN, V.I.; BAKHAREVA, G.P.

Effect of blasting on the stability of open pit walls. Bezop.
truda v prom. 5 no.4:6-9 Ap '61. (MIRA 14:3)

1. Unipromed'.

(Blasting)

S/282/63/000/001/002/011
A059/A126

AUTHORS: Belyayev, D.V., Zobnin, V.P.

TITLE: The automation of the process of preparation of aqueous solutions of ammonia, amines, and sodium hydroxide

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 47. Khimicheskoye i kholodil'noye mashinostroyeniye, no. 1, 1963, 3, abstract 1.47.14 (Vestn. tekhn. i ekon. inform. N.-i. in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii, no. 2, 1962, 31 - 34)

TEXT: A novel typical program of automatic control for the continuous preparation processes of binary solutions of given concentration was developed at the Gosudarstvennyy in-t prikladnoy khimii (State Institute of Applied Chemistry) which has been tested and introduced into production in many enterprises of the chemical industry. This program secures the maintenance, within given limits, of uniform concentration, temperature, and level of the solution in the reactor, feeding of the initial components, and discharge of the working solution prepared from the reactor in the amounts required. The automation program for

Card 1/2

The automation of the process of preparation of

S/282/63/000/001/002/011

AO59/A126

the continuous preparation of the aqueous solution of ammonia (amines and sodium hydroxide) of given concentration with an accuracy of its maintenance equal to $\pm 1 - 3$ g/l is described. There are 2 figures and 3 references.

[Abstracter's note: Complete translation]

Card 2/2

ANTOSHIN, Ye.V.

25(5)

p 3

PLANE 1 BOOK REPAIRATIONS

207/353

Spetsializatsiya nauchno-issledovatel'skogo tsentra v oblasti tekhnicheskoy nauki. 2. Tekhnologiya remontov (Institute for Mechanics of Machine-building Plants in the Volume, Vol. 2. Technology of Repair Operations) Moscow, Energiya, 1956. VII, 1059 p. 40,000 copies printed.
 Rep. No. 1. Yu. D. Borisev, Engineer; Ed.: K. O. Topin, Engineer; Tech. Ed.: I. P. Kabanov, Ed. of Ser.; Tech. Ed.: Yu. D. Borisev, Engineer; L. A. Vlasovskiy, Editor of Technical Sciences, and R. A. Bokin, Candidate of Technical Sciences; Moscow: Ed. for Reference Literature (Mashgiz): V. I. Knyazev, Engineer.

PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in a machine-manufacturing plant.

CONTENTS: The handbook contains information pertinent to the organization of repair and maintenance operations, description of maintenance work, and planning of maintenance. Information on scientific research organizations and plants participating in preparation of this volume is included in the coverage of Vol. 1 (1957/1959). There are no references. Basic topics covered include: planning, and the making of parts in maintenance operations; metal-working; checking parts for wear; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

Ch. VI. Maintenance of Power Equipment
 Maintenance of Industrial Ventilation Systems (Vol. 1, 2, 3, Engineer)
 General description of industrial ventilation systems (Vol. 1, 2, 3, Engineer)
 Basic requirements for manufacturing parts and assembly of mechanical parts
 Basic requirements for manufacturing air ducts
 Maintenance of ventilation installations
 Testing of ventilation installations

Card 21/25

ZOBIN, V.S.

ABRAMOVICH, I.I., prof., ANBINDER, A.G., inzh., ANTOSHIN, Ye.V., inzh.,
 ARKHANGEL'SKIY, L.A., inzh., ASTAF'YEV, S.S., kand. tekhn. nauk,
 AFANAS'YEV, L.A., inzh., BARGSHTEYN, I.I., inzh., BORISOV, Yu. S.,
 inzh., red., BYALYY, I.I., inzh., VETVITSKIY, A.M., inzh., GERSHMAN,
 D.Kh., inzh., GINZBURG, Z.M., inzh., GOROSHEIN, A.K., inzh.,
 YEVDOKIMCHIK, Kh.I., inzh., ZHIKH, V.A., kand. tekhn. nauk,
 ZABYVAYEV, Ye. I., kand. tekhn. nauk, [deceased], ZOBIN, V.S., inzh.,
 IVANOV, G.P., kand. tekhn. nauk, KAPRANOV, P.N., inzh., KONDRATOVICH,
 V.M., inzh., KOSTEREV, S.K., inzh., KOVAL'SKIY, N.N., inzh., KRUGLYAK,
 L.A., inzh., LUKYANOV, T.P., inzh., LAPIDUS, A.S., kand. tekhn. nauk,
 LIVSHITS, G.A., kand. tekhn. nauk, LISHANSKIY, I.M., inzh., MIGALINA,
 Ye.Ya., inzh., NOSKIN, R.A., kand. tekhn. nauk; PHONIKOV, A.S.,
 doktor tekhn. nauk, REGIER, Z.L., kand. tekhn. nauk, RUDYK, M.A.,
 inzh., SOKOLOVA, N.V., inzh., SAKLINSKIY, V.V., inzh., SAKHAROV, V.P.,
 inzh., TOKAR', M.Kh., inzh., TKACHEVSKIY, G.I., inzh., KHRUNICHEV,
 Yu.A., kand. tekhn. nauk, TSOPIN, K.G., inzh., red.; SHEYNGOL'D, Ye. M.,
 inzh., SOKOLOVA, T.F., tekhn. red.

[Handbook for machinists of machinery plants in two volumes] Spravochnik
 mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. Moskva, Gos.
 nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol. 2. [The technology
 of repair work] Tekhnologiya remonta. Otv. red. toma IV. S. Borisov,
 1958. 1059 p.

(MIRA 11:10)

(Machinery--Maintenance and repair)
 (Machine-shop practice)

ZOBININ, Ye.F.

Case of myxoma of the thoracic wall of large size. Khirurgiia
no.8:130-131 Ag '62. (MIRA 15:8)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. Z.I. Vlasova) II
Gorodskoy bol'nitsy Krasnotur'inska Sverdlovskoy oblasti.
(CHEST---TUMORS)

ZORNIN, Ye.F.

Single-stage retrosternal esophagotomy using the small intestine following resection of the esophagus and gastrectomy for cancer. Khirurgiya 40 no.9 1961 (MIRA 18:2)

1. Khirurgicheskoye otdeleniye (zav. Ye.F. Zornin) 1-yy gorodskoy bol'nitsy goroda Sarova Sverdlovskoy oblasti.

ZOBININ, Ye. F.

traumatic rupture of the pericardium and diaphragm in combination
with multiple bone injuries. Vest. khir. no. 2: 121 '62.
(MIRA 15:2)

1. Iz 1-go khirurgicheskogo otdeleniya (nav. - Z. I. Vlasova)
2-y gorodskoy bol'nitsy gor. Krasnotur'inska Sverdlovskoy oblasti.

(PERICARDIUM—WOUNDS AND INJURIES)
(DIAPHRAGM—WOUNDS AND INJURIES)
(BONES—WOUNDS AND INJURIES)

ZOBNIN, Ye.F.

Isolated torsion of the fallopian tube following sterilization by the Madlener method. Akush. i gin. no.2:142-143 '64.

(MIRA 18:10)

1. Khirurgicheskoye otdeleniye (zav. - Ye.F.Zobnin) Zvenigoredskoy oblastnoy territorial'noy bol'nitsy (glavnyy vrach N.A.Sventskiy) Moskovskoy oblasti.

S/137/62/000/002/055/144
A006/A101

AUTHORS: Abrikosov, N. Kh., Zobnina, A. N.

TITLE: Investigation of tellurium and antimony compounds with iodine

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 37, abstract 23292
(V sb. "Vopr. metallurgii i fiz. poluprovodnikov", Moscow, AN SSSR, 1961, 110 - 112)

TEXT: Alloys were prepared with Cy -00 (Su-00) grade Sb, I "pure for analyses", and Te that was previously purified by double distillation in a vacuum. Specimens were prepared by alloying the components in evacuated sealed ampoules. Prior to taking the batches, Sb and Te were crushed in an agate mortar down to 40 mesh. I was taken in the form of individual crystals. The TeI , SbI_3 , SbTeI compounds obtained possessed the following properties, respectively: melting point - 184, 171, and 360°C ; electric resistivity $26 \cdot 10^6$, $5 \cdot 10^5$ and $1.6 \cdot 10^4$ ohm.cm; width of the forbidden zone - 1.1; 1.67, and 1.57 ev.

B. Golovin

[Abstracter's note: Complete translation]

Card 1/1

ZOBNINA, B.N., DUDKIN, L.D.

Investigating the thermoelectric properties of the compound
 CoSb_3 with the electroactive impurities Sn, Te, and Ni. Fiz.
tver.tela 1 no.12:1821-1827 D '59. (MIRA 13:5)

1. Institut metallurgii imeni A.A.Baykova AN SSSR, Moskva.
(Cobalt antimonide)

ZOBNINA, B.N.

PA - 2184

AUTHOR
TITLE

ALEKSEEVA, V.G., ZOBNINA, B.N., KARPOVA, I.V.
On the Influence of the Heating of Germanium on the Concentration of Thermal Acceptors by means of Electric Current. (Vliyaniye nagre va germaniya elektricheskim tokom na koncentratsiyu termicheskikh akseptorov.) Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 1, pp 215-217 (U.S.S.R.)
Received 2/1957
Reviewed 4/1957

PERIODICAL

ABSTRACT

S.MAYBURG, Phys.Rev.95, 38 (1954) found that the concentration of the centers of acceptors can be decreased considerably, if germanium is first heated for a long time in a vacuum by means of a parallel current. In order to decide whether the remanent thermoelectors are lattice defects or atoms of the chemical admixtures, the authors tried to estimate the activation energy and the energetic properties on the occasion of the generation of these thermoelectors.
The samples investigated of the germanium monocrystals had a specific resistance of 10 - 50 cm.Ohm and measured 2 x 3 x 15-18 mm. The samples were gebeized with 30% peroxyde, washed and then pressed vertically between two tantalum holders. These tantalum holders also served as electrodes. On the occasion of measuring the specific resistance tantalum probes were pressed onto the samples. When heating the samples by means of parallel current (if temperature remains below 700°C) no noticeable decrease of the concentration of the thermoelectors is observed. At temperatures of more than 700°C concentration of thermoelectors changes considerably. At first the n-type sample changes into a p-type of low resistance, this resistance then increases quickly and finally

Card 1/2

PA - 2184

On the Influence of the Heating of Germanium on the Concentration of Thermal Acceptors by means of Electric Current.

attains values very near the eigen value. The samples annealed by the alternating current at the same temperatures, changed into hole-like samples and their specific resistance (which first slightly increased) hardly changed at all in the course of further heating. The values of the concentration of the thermoacceptors after being heated by parallel current were almost lower by one order of magnitude than the concentration of the thermoacceptors after a heating by alternating current. A diagram illustrates the values of the thermoacceptors corresponding to equilibrium. The data obtained here indicate a decrease of concentration of the thermoacceptors (after a heating by parallel current) as a consequence of electrolysis. The remanent thermoacceptors are probably not due to lattice defects but to very small quantities of other chemical admixtures. (1 illustration)

ASSOCIATION	Not given
PRESENTED BY	
SUBMITTED	11. 10. 1956
AVAILABLE	Library of Congress

Card 2/2

ZOBINA, K.S.

Regularities in the circulation of bacteriophage in the body and its excretion by the kidneys in infection and immunity. Zhur. mikrobiol., epid. i immun. 40 no.2:37-42 F '63. (MIRA 17:2)

1. Iz Kazanskogo instituta epidemiologii i gigiyeny.

Country: USSR

Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103481.

Author : Avkent'yova, V.A.; Alatyrtseva, I. Ye.; Burukina,
A.V.; Zobnina, K. S.; Gel'shan, L.S.; Kuznetsova,
G.S.; Minkevich, Ye. I.

Inst : -

Title : The Problem of Increasing the Therapeutic Effectiveness
of Dysentery Bacteriophage.

Orig Pub: Sb. Bakteriofagiya, Tbilisi, Gruzmedgiz, 1957, 115-121.

Abstract: Of 337 dysentery cultures isolated in children who
were sick with chronic dysentery only 50 percent
proved to be sensitive to the usual standard phages.
The phages were adapted (to each culture individually)

Card : 1/2

Country : USSR

Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105487.

Author : Rappe, F. I.; Zobnina, K. S.; Kuznetsova, V. K.;
Davydova, K.P.; Dunaeva, N. H.

Title : Development of Methods for Obtaining Highly Active
Dysentery Bacteriophage with Consideration of the
Microbial Environment in a Focus.

Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957,
159-161.

Abstract: Polyvalent dysentery polyphage was prepared by means
of adaptation to freshly-isolated cultures (six months
old) belonging to representatives of various serolo-
gical types. The polyphage obtained lysed 94 o/o of
200 cultures tested. Of 80 patients treated with the

Card : 1/2

USSR/General Problems of Pathology. Pathological Physiology of In- U-3
fection

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 61021

Author : Zobnina K.S.

Inst : -

Title : The Role of Renal Secretions in the Mechanics of Immunity

Orig Pub : Osnovy Immuniteta, Moskva, 1956, 95-100

Abstract : When mice susceptible to dysentery (D), and mice resistant to this infection, were infected with an active dysentery culture, a discharge of active dysentery culture, a discharge of active dysentery bacteriophage was observed in their urine. This may be estimated as a possible manifestation of a specific reaction of the organism, and one of the defense devices safeguarding against infection.

Card : 1/1

29

ZOBNINA, K.S.; PEREL'SHTEYN, S.B.; RAPPE, F.I. (Kazan')

Production of an adaptive dysenteric bacteriophage and its effectiveness in treating acute dysentery. Kaz. med. zhur. no.5:76-77 S-O '61. (MIRA 15:3)

(DYSENTERY)
(BACTERIOPHAGE)

30995. ZOBNINA, K. S.

K voposu ob ustoychivosti titra suxogo dizenteriyogo bakteriofaga.
Sbornik nauch. Trudov (Kazansk. in-t epidemiologii i mikrobiologii), vyp. 1,
1949 [na obl: 1948], s. 175-77

ZOENINA, K.S.

Distribution of the dysenteric bacteriophage in the organism of inoculated mice in relation to the time the phage was administered and the preceding immunization. Vop.virus. 7 no.63744 N-D '62.

(MIRA. 16:4)

1. Kazanskiy nauchno-issledovatel'skiy institut epidemiologii i gigiyev.

(BACTERIOPHAGE)

(DYSENTERY)

203 NINA, K. S.

30996. ZOBININA, K. S. AND IRINEVA, N. G.

Kislotnye gidrolizaty kak pitatel'nye sybstraty v proizvodstve
dizenteriyogo bakteriofaga. Chornik nauch. Trudov (Kazansk. in-t epidemiologii
i mikrobiologii), Vyp. 1, 1949 [na obl: 1948], s. 153-58 Bibliogr: 13 nazv.

ZOBNINA, K.S.

Mechanism of excretion of the dysentery bacteriophage through the kidneys. Zhur.mikrobiol.epid.i immun. no.7:99 J1 '54. (MLRA 7:9)

1. Iz Kazanskogo instituta vaktsin i syvorotok.
(DYSENTERY)

Abstract U-7920, 8 Mar 56

24.7700 (1043,1055,1482)

351144

S/058/62/000/002/035/053
A001/A101

AUTHORS: Abrikosov, N. Kh., Zobnitsa, A. N.

TITLE: Investigations of tellurium and antimony compounds with iodine

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1962, 31, abstract 2E295 (V sb. "Vopr. metallurgii i fiz. poluprovodnikov", Moscow, AN SSSR, 1961, 110-112)

TEXT: The authors describe physical properties and crystalline structure of the following compounds: TeI , TeI_4 , SbI_3 , SbTeI . They investigated the microhardness, electric conductivity, thermo-emf and heat conductivity of the compounds: TeI , SbI_3 and SbTeI . Using the temperature dependence of electric conductivity, they calculated the values of the widths of forbidden band which turned out to be 1.1 eV for TeI , 2.5 for SbI_3 , and 2.1 eV for SbTeI . X

B. Ol'khov

[Abstracter's note: Complete translation]

Card 1/1

U/008/60/013/008/001/002
B009/B057

AUTHOR:

Zobor, Ervin

TITLE:

Reactor Simulators II. Communication

PERIODICAL:

Energia és Atomtechnika, 1960, Vol. 13, No. 8, pp. 372-376

TEXT: Simulation of Xenon Poisoning. - Of the two major reactor poisons Xe¹³⁵ alone is treated. The equations of the fission chain of Xe¹³⁵ are written down on the assumption that the immediate fission product be I¹³⁵. The change of the iodine and xenon concentrations with time is then expressed by differential equations ($\frac{dI}{dt} = \dots$ and $\frac{dX}{dt} = \dots$), where I and X are the numbers of nuclei per cm³ of I¹³⁵ and Xe¹³⁵, respectively. The analog computer circuit of Fig. 9 is designed in such a way that voltages proportional to the iodine and xenon concentrations may be taken off from two potentiometers. It is supposed that of the several factors of the effective multiplication factor, written down for the bare pile, only the thermal utilization factor is modified essentially, and that the former

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Reactor Simulators II. Communication

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is proportional to the latter. As a result, the reactivity caused by poisoning is found to be proportional to the concentration of Xe. - V. The Experimental Model of the Reactor Power Plant. - The approximate equations for a pressurized water reactor (its heat circuit is given in Fig. 10) are written down, and on their basis the electrical model of the power plant proper is drawn in Fig. 11. Considering that the reactivity should have the character of a negative feedback, the principles of the model of a complete nuclear power plant and of the control system are shown in Fig. 12. VI. Measurement of Reactivity With the Reactor Simulator. - The reactivity of a reactor can be measured by determining the inverse function by analog computation. The principle and the measuring arrangement are shown in Figs. 13 and 14, respectively. Summary: The aim of the paper is to give a survey of publications available on reactor simulators and their uses. Estimates of the errors of analog computers as well as problems of their design are not considered. Excepting the xenon-poisoning simulator, only equipments operating with electron-tube amplifiers are shown. At the end of the article there are corrections of the errata in the first publication. There are 6 figures and 11 references: 1 Soviet, 3 US, 4 German, and 1 French. ✓

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Reactor Simulators II. Communication

ASSOCIATION: Központi Fizikai Kutató Intézet
(Central Physics Research Institute)

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ZOBER, Ervin

Application of a BF_3 counting tube as ionization chamber.
Koz fiz kozl HTA 11 no.2:159-160 '63.

H/008/60/013/06/08/011
B122/B011

AUTHOR: Zobor, Ervin

TITLE: Reactor Simulators 19

PERIODICAL: Energia és Atomtechnika, 1960, Vol. 13, No. 6, pp. 478-483

TEXT: The present article offers a brief survey of the various possibilities of designing reactor simulators. The author first specifies the technical fundamentals of a computer, the operation of which is described by a differential equation system which equals the reactor-kinetic equations. Fig. 1 shows a circuit diagram for carrying out linear mathematical operations which are required for the solution of the time-dependent differential equations. The kinetic differential equation system of the reactor is given. Table 2 shows the parameters of retarded neutrons in U^{235} fission. The following kinetic simulators are dealt with next: 1) Simulators with symmetric amplifiers: a) Reactivity is adjusted by potentiometers or by a change in resistance and the retardation by series-connected RC-members (Figs. 2 and 3). b) Reactivity is adjusted by a voltage change (Fig. 4). c) Simulators with "T" retarding members (Fig. 5). d) The percentage of retarded neutrons can

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be varied (Fig. 6). 2) Simulators with simple amplifier (Fig. 7 [Abstracter's Note: the text reads Fig. 9 due to a misprint]). 3) Simulators with amplifier with independent input and output potentials (Fig. 8). There are 8 figures and 2 tables.

ASSOCIATION: Központi Fizikai Kutatóintézet (Central Research Institute of Physics)

Card 2/2

ZOBOROVSKIY, A.B.

Investigation of the higher nervous function in rheumatism by
using unconditioned and conditioned vascular reflexes, Klin. med.
32 no.10:39-45 0 '54. (MLRA 8:1)

1. Iz kafedry gosital'noy terapii (sav. prof. I.V.Vorob'yev)
Tomskogo meditsinskogo instituta imeni V.M.Molotova.

(RHEUMATISM, physiology

CNS, typing of higher nervous funct. with vasc. reflexes)

(CENTRAL NERVOUS SYSTEM, in various diseases,

rheum., typing of higher nervous funct. with vasc. reflexes)

POLAND/Chemical Technology - Chemical Products and Their
Applications - Corrosion. Corrosion Protection.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 36574

Author : Zoborwski, G.

Inst :

Title : Dezincification of Brass Condenser Tubes.

Orig Pub : Rudy i Metale Niezel., 1957, 2, No 3, 93-96

Abstract : Depending on the composition of the alloy, the service life of brass tubes (B.T.) varies from 15-2 years. It has been shown that dezincification (D) may have a superficial or local character and that it is a function of the composition and structure of the alloy. The most dangerous type is pitting (D) whose rate reaches several mm/year. Influence of various additives on brass types: M-70, M-68, M-63 and M-60 has been studied. It has been shown that $\alpha + \beta$ 60/40 brass (Muntz metal) is also prone to (D). More resistant is

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S/190/62/004/008/013/016
B101/B180

AUTHORS: Skazka, V. S., Zobov, R. A., Mostepanenko, A. M.

TITLE: Investigation of light scattering and viscosity of polyisobutylene solutions

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 8, 1962, 1257-1261

TEXT: Light scattering was applied to determine the linear functions $c/R'_{90} = f(c)$ and $1/(Z' - 1) = f(c)$ and the molecular weight, the second virial coefficient, and the root mean square distance $(\bar{h}^2)^{1/2}$ between the ends of the macromolecule of solutions of polyisobutylene (molecular weight $0.28 \cdot 10^4 - 12.6 \cdot 10^4$) in hexane purified by centrifuging at 20 000 g. The intrinsic viscosity $[\eta]$ of polyisobutylene solutions in hexane, toluene, and in θ solvent was also determined. Results: (1) $[\eta] = 3.6 \cdot 10^{-4} M^{0.62}$; $[\eta] = 3.2 \cdot 10^{-4} M^{0.62}$; and $[\eta] = 7.6 \cdot 10^{-4} M^{0.5}$ for hexane, toluene, and θ solvent respectively, which is in good agreement with the values obtained by T. Fox, P. Flory (J. Amer. Chem. Soc., 79, Card 1/2

Investigation of light scattering and ...

S/190/62/004/008/013/016
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1909, 1951), and W. R. Kriegbaum and P. Flory (J. Polymer Sci., 11, 37, 1953). (2) The equilibrium flexibility $(h_0^2/h_f^2)^{1/2}$ of polyisobutylene molecules was greater than that of the other vinyl polymers. Calculated from viscosity equilibrium flexibility (1.86) is larger than when calculated by light scattering (1.6). W. Kriegbaum and D. Carpenter (J. Phys. Chem., 59, 1166, 1955) attribute this to dependence of the Flory constant Φ on the type of solvent. Direct measurements of $(h_0^2)^{1/2}$ are to be made, to solve this problem. There are 6 figures and 1 table.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)
SUBMITTED: June 7, 1961

Card 2/2

MOLDOVANSKAYA, G.I.; NOVIKOVA, Ye.N.; SKVORTSOVA, N.I.; ZOBOV, Ye.N.

Utilization of the polarographic method for the analysis of
orris oil. Trudy VNIISRDV no.4:194-197 '58. (MIRA 12:5)
(Essences and essential oils--Analysis)
(Polarography)

ZOBOV, Ye. V.

"Polarographic Determination of Volatile Aldehydes and Ketones," Kishinev State U, Min Higher Education, Kishinev, 1955. (KL, No 10, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

Zobov, Ye.V.

USSR/ Analytical Chemistry - Analysis of Organic Substances

G-3

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12172

Author : Zobov Ye.V., Lyalikov Yu.S.

Title : An Experiment on Titration of Aldehyde with 2,4-Dinitro-Phenylhydrazine

Orig Pub : Zh. analit. khimii, 1956, 11, No 4, 459-462

Abstract : On study of polarographic properties of 2,4-dinitro-phenylhydrazine (I) it was found that with a H_2SO_4 background I produces two waves of E_1^1 - 0.244v and E_2^1 - 0.510v. With NH_4Cl background half-wave potentials are, respectively, - 0.546 and - 0.808v; with NH_4OH background - 0.566 and - 0.828v. Benzaldehyde (II) produces a wave at potential - 1.0v. By titration at -0.7v there is obtained a rectified portion and a sharp rise of the current following the equivalence point. The resulting residual current (7 a) is constant and does not affect the titration results. On titration with an applied

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Kishinev State U.

ZOBOV, Ye.V.; TSIFLYAKOVA, V.A.

Electroreduction of vetivone on a dropping mercury cathode in media of various pH values. Zhur.ob.khim. 30 no.5:1417-1420 My '60. (MIRA 13:5)

1. Moldavskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti.

(Asulenone)

1. 1971-72 2. 1973-74 3. 1975-76 4. 1977-78

II 1 1971-72 15

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MATSYUK, L.L.; KHARITON, Kh.Sh.; ZOBOV, Ye.V.

Modification of epoxide resins with furyl resins. Plast. massy
no.6:69-70 '63. (MIRA 16:10)